

ABSTRACT

In this project we have tried to understand and demonstrate the regions that are vulnerable to forest fire for our study area present in Chhattisgarh. Various factors that led to forest fire like slope , elevation and proximity to roads etc. have been taken into account in order to understand their relative weightages and the forest fire points are also been collected from MODIS data site. Based on the relative weightages of the factor the forest fire risk map has been computed using two techniques that are AHP and Frequency ratio. After this the area has been calculated under such scenarios. After that we tried to estimate the differences in areal coverage for different risk zones this two particular methods. We have adopted the techniques of collecting the data directly from the field of forest fire using ArcGIS Survey123 and displaying them in ArcGIS Dashboard which can help the authorities for speedy decision making and policies.

Keywords: AHP, ArcGIS Survey123, ArcGIS Dashboard